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IMAGERY
ANALYSIS
DIVISION

PIR

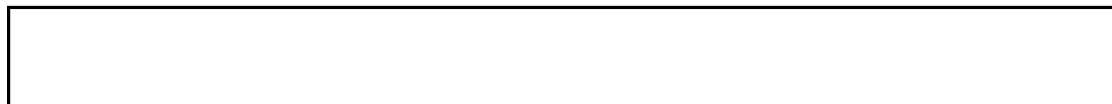
PHOTOGRAPHIC INTELLIGENCE REPORT

MENSURAL DATA ON UNIDENTIFIED

MISSILE FROM SOVIET FILM

"ROCKETS GUARD THE PEACE"

Declassification Review by
NIMA/DoD



25X

25X

CIA/PIR 61100

DATE Mar 1966
COPY 88
PAGES 4

GROUP 1
Excluded from automatic
downgrading and declassification

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25X1

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CIA IMAGERY ANALYSIS DIVISION

[] CIA/PIR-61100 25X

MENSURAL DATA ON UNIDENTIFIED MISSILE FROM SOVIET FILM

"ROCKETS GUARD THE PEACE"

This report has been prepared in response to a CIA requirement requesting a detailed dimensioned schematic of the missile seen on [] at Launch Complex B, Launch Sites B-1 and B-2, Sary Shagan Missile Test Center, USSR (Figure 1). A missile of the same type was also seen in the Soviet movie "Rockets Guard the Peace."

Scaling factors for the Soviet movie imagery were derived from measurements of the missiles seen at Launch Complex B, Sary Shagan Missile Test Center. This mensuration was accomplished on good quality [] photography [] by NPIC/Technical Intelligence Division, with CIA/Imagery Analysis Division photo analysts performing point identification.

The resulting dimension of [] for missile length was used to derive a scaling factor which was applied to the Soviet movie imagery. The results are shown in Figure 2.

The two-stage missile has a sustainer [] in length and [] in diameter and a booster [] in length and [] in diameter. The missile has at least two sets of stabilizers.

Sustainer Stabilizer Wings - One set of stabilizers consists of four diametrically opposed, generally triangular stabilizer wings located on the sustainer, set at a 45 degree angle to the ground plane. The wing root measures a minimum of approximately [] however the exact points where the wings connect to the missile body could not be determined. The [] span measurement of a single sustainer stabilizer wing was derived from a sequence of movie imagery depicting the missile rolling immediately after launch. The measurement of the longest stabilizer fin visible during the rolling motion is the one depicted in Figure 2. Therefore, the minimum span of each wing is [] The exact wing tip configuration cannot be determined due to poor image quality. In some of the movie frames the wings appear to be pointed, however in other frames the wing tips appear to be blunt.

Booster Stabilizer Fins - Analysis of [] photography reveals two booster stabilizer fins, the placement of which suggests three, equally spaced fins. One fin appears to project vertically from the launcher mounted missile. The leading edge is slightly swept, with the root chord measuring [] and the tip chord [] Each stabilizer fin has a span of [] A possible brace, clamp, or control fin is located [] from the exit plane of the booster. This point on the booster appears as an enlarged area in the Soviet

UNIDENTIFIED
MISSILE

B-2

CONTROL
BUNKER

BUNKER

UNIDENTIFIED
MISSILE

B-1

LAUNCH PADS B-1 AND B-2, FACILITY B
LAUNCH COMPLEX B, SARY SHAGAN
ANTIMISSILE TEST CENTER

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movie imagery, and as a dark band on the [] imagery. Because of poor image quality it cannot be determined if this object is connected to the launcher (as a possible clamp or brace) or whether it is an integral part of the missile.

Due to the method of determining the scaling factors, and the poor quality of the movie imagery, the dimensions derived cannot be considered any more accurate than +10 percent.

REFERENCES

PHOTOGRAPHY

Selected frames from the Soviet movie "Rockets Guard the Peace" (CONFIDENTIAL)



DOCUMENTS

CIA. PIR-61052, [] Unidentified Missile From Soviet Movie
"Rockets Guard the Peace" October 1965 (TOP SECRET [])

REQUIREMENT

C-SI5-83,214

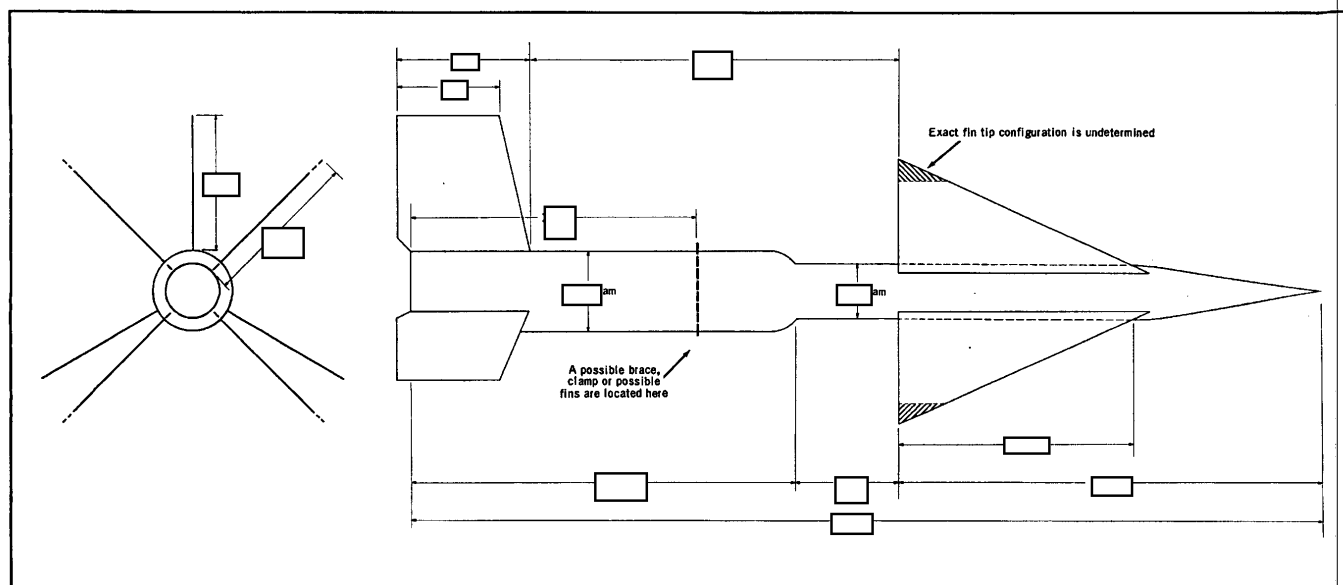
CIA/IAD PROJECT

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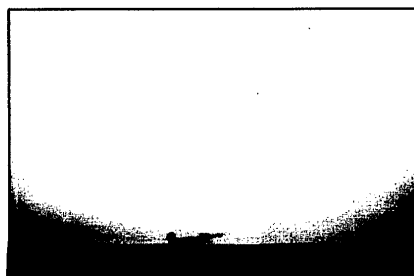
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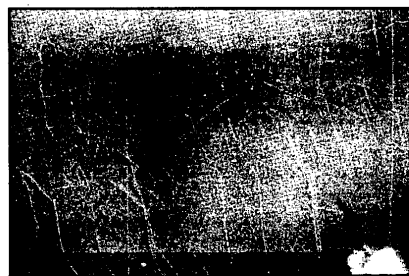
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UNIDENTIFIED MISSILE



UNIDENTIFIED MISSILE ON LAUNCHER



LAUNCHING OF UNIDENTIFIED MISSILE

FIGURE 2.

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